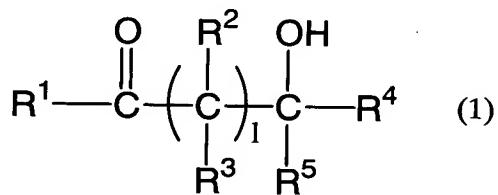


WHAT IS CLAIMED IS:

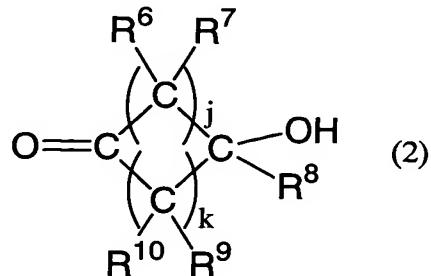
1. A photosensitive resin precursor composition comprising:

- (a) a heat resistant resin precursor polymer;
- (b) a radiation sensitive compound; and
- (c) a solvent expressed by formula (1):



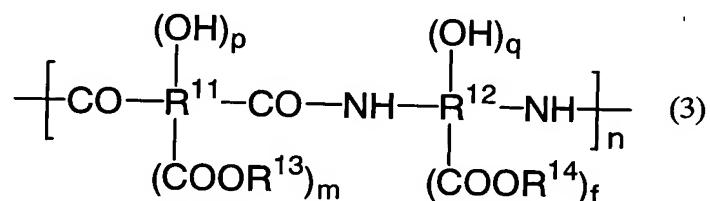
wherein R^1 represents an alkyl group having a carbon number in the range of 1 to 3, R^2 , R^3 , R^4 , and R^5 are each selected from among hydrogen and alkyl groups having carbon numbers in the range of 1 to 3, and 1 represents an integer in the range of 0 to 3.

2. A photosensitive resin precursor composition according to Claim 1, wherein the solvent is expressed by formula (2):



wherein R⁶ to R¹⁰ are each selected from among hydrogen and alkyl groups having carbon numbers in the range of 1 to 3, and j and k are each an integer in the range of 0 to 3 and satisfy the relationship j + k ≥ 2.

3. A photosensitive resin precursor composition according to Claim 1, wherein the heat resistant resin precursor polymer comprises a structural unit expressed by formula (3):

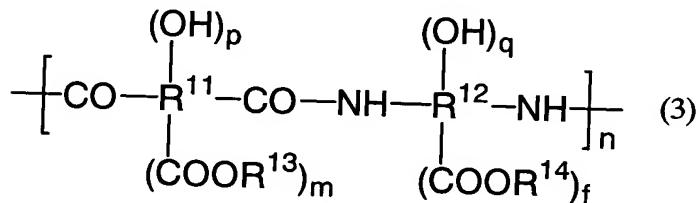


wherein R¹¹ and R¹² are each an organic group having a carbon number of at least 2 and a valence in the range of 2 to 8, R¹³ and R¹⁴ are each selected from among hydrogen and organic groups having a carbon number in the range of 1 to 20, n is in the range of 10 to 100000, m and f are each an integer in the range of 0 to 2, and p and q are each an integer in the range of 0 to 4 and satisfy the relationship p + q > 0.

4. A photosensitive resin precursor composition according to Claims 1, wherein the radiation sensitive

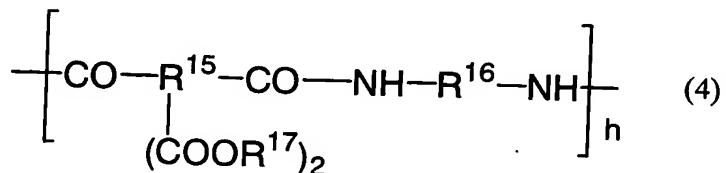
compound is a quinone diazide.

5. A photosensitive resin precursor composition according to Claims 1, wherein the heat resistant resin precursor polymer comprises a structural unit expressed by formula (3) and wherein the radiation sensitive compound is a quinone diazide.



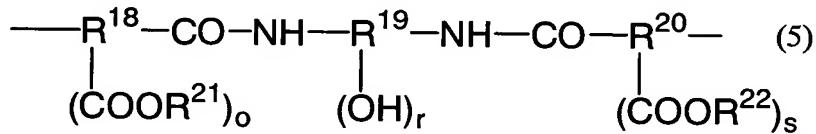
wherein R^{11} and R^{12} are each an organic group having a carbon number of at least 2 and a valence in the range of 2 to 8, R^{13} and R^{14} are each selected from among hydrogen and organic groups having a carbon number in the range of 1 to 20, n is in the range of 10 to 100000, m and f are each an integer in the range of 0 to 2, and p and q are each an integer in the range of 0 to 4 and satisfy the relationship $p + q > 0$.

6. A photosensitive resin precursor composition according to Claim 1, wherein the heat resistant resin precursor polymer comprises a structural unit expressed by formula (4):



wherein R¹⁵ represents an organic group having a carbon number of at least 2 and a valence in the range of 2 to 8, R¹⁶ represents an organic group having a carbon number of at least 2 and a valence in the range of 2 to 6, R¹⁷ represents an organic group having a carbon-carbon unsaturated double bond capable of dimerization or polymerization by actinic radiation and having a carbon number in the range of 1 to 30, and h is in the range of 10 to 100000.

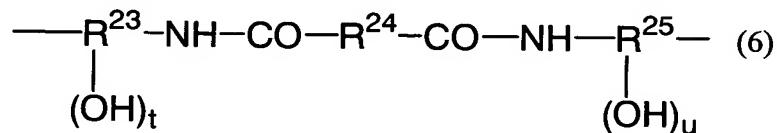
7. A photosensitive resin precursor composition according to Claim 3, wherein R¹¹(COOR¹³)_m(OH)_p in formula (3) is expressed by formula (5):



wherein R¹⁸ and R²⁰ each represent an organic group having a carbon number in the range of 2 to 20 and a valence in the range of 2 to 4, R¹⁹ represents an organic group having a carbon number in the range of 3 to 20 and a valence in the range of 3 to 6 and having a hydroxy group, R²¹ and R²² are each selected from among hydrogen and organic groups having carbon numbers in the range of 1 to 20, o and s each

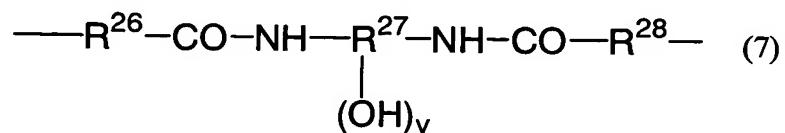
represent an integer in the range of 0 to 2, and r represents an integer in the range of 1 to 4.

8. A photosensitive resin precursor composition according to Claim 3, wherein $R^{12}(COOR^{14})_f(OH)_q$ in formula (3) is expressed by formula (6):



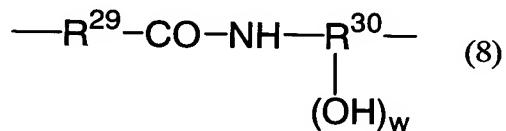
wherein R^{23} and R^{25} each represent an organic group having a carbon number in the range of 2 to 20 and a valence in the range of 3 to 4 and having a hydroxy group, R^{24} represents a divalent organic group having a carbon number in the range of 2 to 30, and t and u each represent an integer of 1 or 2

9. A photosensitive resin precursor composition according to Claim 3, wherein $R^{12}(COOR^{14})_f(OH)_q$ in formula (3) is expressed by formula (7):



wherein R²⁶ and R²⁸ each represent a divalent organic group having a carbon number in the range of 2 to 20, R²⁷ represents an organic group having a carbon number in the range of 3 to 20 and a valence in the range of 3 to 6 and having a hydroxy group, and v represents an integer in the range of 1 to 4.

10. A photosensitive resin precursor composition according to Claim 3, wherein R¹²(COOR¹⁴)_f(OH)_q in formula (3) is expressed by formula (8):



wherein R²⁹ represents a divalent organic group having a carbon number in the range of 2 to 20, R³⁰ represents an organic group having a carbon number in the range of 3 to 20 and a valence in the range of 3 to 6 and having a hydroxy group, and w represents an integer in the range of 1 to 4.

11. A photosensitive resin precursor composition according to Claim 3, wherein m, f, and p in formula (3) are

0.

12. A photosensitive resin precursor composition according to Claim 3, wherein, in formula (3), m is 2 and f is 1 or 2.